Third Year B. Tech., Sem V 2021-22

PL3

PRN/ Roll No: 2019BTECS00070

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Batch: T2 PRACTICAL NO: 7

To create a Node.js HTTP server and REPL Commands.

1. Create a separate workspace for your project using selected IDE.

```
Command Prompt
                                                                                                                                                                      ::\Users\DELL\Desktop\pl3>npm install -g express-generator
npm WARN deprecated mkdirp@0.5.1: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note that the API surface has changed to use Promises in 1.x.)
C:\Users\DELL\AppData\Roaming\npm\express -> C:\Users\DELL\AppData\Roaming\npm\node_modules\express-generator\bin\expres
 express-generator@4.16.1
added 10 packages from 13 contributors in 5.048s
 :\Users\DELL\Desktop\pl3>express --view=ejs myapp
   create : myapp\
   create : myapp\public\
create : myapp\public\javascripts\
   create : myapp\public\images\
    create : myapp\public\stylesheets\
   create : myapp\public\stylesheets\style.css
create : myapp\routes\
create : myapp\routes\index.js
   create : myapp\routes\users.js
create : myapp\views\
   create : myapp\views\error.ejs
    create : myapp\views\index.ejs
   create : myapp\app.js
create : myapp\package.json
create : myapp\bin\
   create : myapp\bin\www
   change directory:
      > cd myapp
```

2. Write a program to start a Node.js server on localhost and listens to the client requests on port number 8080.

```
C:\Users\DELL\Desktop\pl3\myapp\routes\index.js (myapp) - Sublime Text (UNREGISTERED)

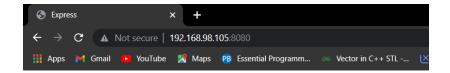
♦ index.js

                                         × www
                                                              × index.ejs
 FOLDERS
 ▼ 🚞 myapp
                           var express = require('express');
  ▼ 🚞 bin
                          var router = express.Router();
    □ www
  ▶ public
                           /* GET home page. */
  router.get('/', function(req, res, next) {
     /* index.js
                           res.render('index', { title: 'Express' });
     /* users.js
                           });
  ▼ 🚞 views
    error.ejs
                       9 module.exports = router;
    index.ejs
    /* app.js
   /* package.json
```

```
\subseteq C:\Users\DELL\Desktop\pl3\myapp\views\index.ejs (myapp) - Sublime Text (UNREGISTERED)
                                                                                                                                  × index.ejs
FOLDERS
                                          1 k!DOCTYPE html>
2 <html>
 ▼ 🚞 myapp
                                             2 <html>
3 <head>
    ▼ 🚞 bin
        □ www
    ▶ public
                                          4
5
</head>
7
</body>
8
</h1>
\text{sp:Welcome to <%= title %>
\text{bady}
\text{bady}
                                                           <title><%= title %></title>

</r>

<pr
     routes
         /* users.is
     views
       error.ejs
       /* package.json
```

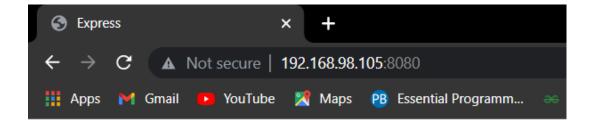


Express

Welcome to Express

3. Change the Node.js IP address and port number and start the server again.

```
| Colored Colo
```



Express

Welcome to Express

Problem Statement 2:

- 1. Perform the fundamentals programming constructs such as operations, loops, variable assignments and printing their values using Node.js REPL environment.
- 2. Save the REPL session to a file and reload the REPL session.

```
Command Prompt
GET /favicon.ico <mark>404</mark> 2.991 ms - 1013
Terminate batch job (Y/N)? y
C:\Users\DELL\Desktop\pl3\myapp>node
Welcome to Node.js v12.19.0.
Type ".help" for more information.
> var x = "Welcome to nodejs"
> 2 + 3
> var a = 5,b=6
 a+b
 a%b
 a/b
 Math.round(a/b)
> for(var i =1;i<5;i++) console.log("Loop number -> "+i);
Loop number -> 1
Loop number -> 2
Loop number -> 3
Loop number -> 4
> .help
          Sometimes you get stuck, this gets you out
.break
.clear
          Alias for .break
editor Enter editor mode
        Exit the repl
.exit
         Print this help message
.help
         Load JS from a file into the REPL session
.load
          Save all evaluated commands in this REPL session to a file
. save
Press ^C to abort current expression, ^D to exit the repl
> .save pl3-number7
Session saved to: pl3-number7
(To exit, press ^C again or ^D or type .exit)
 .exit
C:\Users\DELL\Desktop\pl3\myapp>
```